

Claims

1. Apparatus for creating a number of display images comprises a first rotating element provided with a plurality of mounting means, each of said mounting means rotatably carrying one or more second rotating elements each provided with a number of display surfaces, in which the mounting means are arranged such that they define a shape with substantially straight edges, and in which two or more second rotating elements can combine to create a changeable display surface substantially parallel to each substantially straight edge of said shape, and in which in use each second rotating element is rotated independently of all other second rotating elements.
2. Apparatus for creating a number of display images comprises one or more support members and a number of display members rotatably carried thereon, in which each display member comprises a first rotating element provided with a plurality of mounting means, each of said mounting means rotatably carrying one or more second rotating elements each provided with a number of display surfaces, in which the mounting means are arranged such that they define a shape with substantially straight edges, and in which two or more second rotating elements can combine to create a changeable display surface substantially parallel to each substantially straight edge of said shape, in which in use each second rotating element is rotated independently of all other second rotating elements, and in which the display members can be disposed to collectively define a substantially flat main display surface.
3. Apparatus as claimed in Claim 1 or 2 in which the first rotating element is provided with a number of substantially straight edges which are substantially parallel to the edges of the shape defined by the mounting means, and in which a changeable display surface created by two or more second rotating elements is provided substantially level with each of said number of substantially straight edges.

4. Apparatus as claimed in Claim 3 in which the first rotating element comprises two spaced apart and substantially equilateral triangle shaped members disposed opposite one another, which are each provided with an aperture through their centre, so they can be rotatably mounted to a support member.
5. Apparatus as claimed in Claim 4 in which the second rotating elements comprise elongate members dimensioned to fit between the two first rotating element members, in which the second rotating elements have a substantially equilateral triangle shaped cross-section and three display surfaces.
6. Apparatus as claimed in Claim 5 in which the first rotating element carries three second rotating elements, in which two second rotating elements can combine to create a changeable display surface substantially level with each of said number of substantially straight edges.
7. Apparatus as claimed in Claim 6 in which the mounting means comprise rods extending from one first rotating element member to the other, and in which the second rotating elements are carried on the mounting means by means of co-operating apertures through their body.
8. Apparatus as claimed in Claim 7 in which two or more second rotating elements are carried on each mounting means.
9. Apparatus as claimed in Claim 6 in which the mounting means comprise bosses provided on one/or both of the first rotating element members, which are adapted to attach to the sides of the second rotating elements.
10. Apparatus as claimed in any of Claims 2 to 9 in which the one or more support members comprises one or more resilient cords.

11. Apparatus as claimed in Claim 10 in which the length of the sides of the second rotating elements are substantially half the length of the sides of the first rotating element, and in which the resilient cords are adapted not to foul the second rotating elements in use.
12. Apparatus as claimed in Claim 11 in which a number of resilient cords are mounted to a frame, which defines the edge of the main display surface.
13. Apparatus as claimed in Claim 12 in which the distance between each resilient cord is substantially the length of one side of the first rotating element.
14. Apparatus as claimed in any of Claims 10 to 13 in which the first rotating elements are releasably mounted to the support members, such that they can be re-arranged thereon as desired.
15. Apparatus as claimed in any of the preceding Claims in which the second rotating elements are releasably mounted to the first rotating members, such that they can be re-arranged thereon as desired.
16. Apparatus as claimed in any of Claims 2 to 15 in which in which the display surfaces carry indicia and/or images for use in a game, pursuit or puzzle.
17. Apparatus as claimed in Claim 16 in which the apparatus is a puzzle, and a complete picture can be formed on the main display surface when the first and second rotating elements are arranged into one variation.
18. Apparatus as claimed in Claim 16 in which the apparatus is for a creative pursuit, and in which the display surfaces are different colours such that an image of the user's own creation can be formed on the main display surface by arranging the first and second rotating elements as desired.

19. Apparatus as claimed in Claim 16 in which the display surfaces carry letters, such that words can be formed across the main display surface.
20. Apparatus as claimed in Claim 16 in which the display surfaces carry words, such that sentences can be formed across the main display surface.
21. Apparatus as claimed in Claim 16 in which the main display surface can carry one or more images upon which other games can be played, and in which the first and second rotating elements must be arranged into one or more pre-determined variations to complete said images.
22. Apparatus as claimed in any of Claims 16 to 21 in which the first and/or the second rotating elements are provided with biasing means to resiliently bias the first and/or the second rotating elements to rotational positions in which one edge is parallel to the main display surface.
23. Apparatus as claimed in any of Claims 2 to 22 in which a three dimensional frame structure is provided which defines a number of main display surfaces.
24. Apparatus as claimed in Claim 1 or 2 in which the first rotating element is a shape comprising a number of pronged portions which extend from a centre portion, and in which the number of pronged portions carry the mounting means at their outer ends.
25. Apparatus as claimed in Claim 1 in which the first rotating element is mounted on a support member, which passes through its centre, and in which the support member and/or each second rotating element and/or or the arrangement of the second rotating elements, are adapted to prevent the support member fouling the second rotating elements in use.

26. Apparatus as claimed in Claim 25 in which the support member is a rigid rod provided with a point at one end, and in which the second rotating elements are dimensioned to avoid fouling the rod in use, and in which when the rod is spun on its point, the second rotating elements are adapted to rotate on the mounting means.

27. Apparatus as claimed in any of Claims 1 – 4 in which the second rotating elements comprise a base provided with a plurality of mounting means, each of said mounting means rotatably carrying one or more third rotating elements each provided with a number of display surfaces, in which the mounting means are arranged such that they define a shape with substantially straight edges, and in which two or more third rotating elements can combine to create a changeable display surface substantially parallel to each substantially straight edge of said shape.

28. Apparatus as claimed in any of the preceding Claims in which the first and/or the second rotating elements are provided with light and/or sound emitting means which are activated when said first and/or second rotating elements are orientated in a particular way.

29. Apparatus as claimed in any of the preceding Claims in which the first and second rotating elements are motorised so that they can rotate themselves.

30. Apparatus substantially as described herein and as shown in the accompanying drawings.